

UNIVERSITY
OF
TORONTO
DIVISION
OF
UNIVERSITY
EXTENSION

PRE-UNIVERSITY
- COURSES

1971-1972



Enquiries regarding the courses described in this calendar should be directed to:

Pre-University Courses,
Division of University Extension,
84 Queen's Park,
Toronto 181, Ontario.

Telephone 928-2405

The Division of University Extension reserves the right to withdraw any course listed in this calendar. Enrolment in all courses is limited.

TABLE OF CONTENTS

I	PRE-UNIVERSITY COURSES	2
	Schedule of dates	
II	UNIVERSITY OF TORONTO DEGREE COURSES	4
	Schedule of dates	
III	ADMISSION REQUIREMENTS	5
IV	COURSE DESCRIPTIONS	7
V	DIVISION OF UNIVERSITY EXTENSION	11
VI	STUDENT SERVICES	12
VII	GENERAL REGULATIONS	13
VIII	TIMETABLE	16
IX	APPLICATION FORM	17

I PRE-UNIVERSITY COURSES SCHEDULE OF DATES 1971-72

Winter Session

September 10	Last day to apply for admission to the Pre-University Courses that begin on October 4. Fees in full must accompany the application for admission.
October 4	Lectures begin.
October 11	Thanksgiving Day; lectures will not be held.
November 4	Last day to withdraw and receive a partial refund of fees (see General Regulations).
December 15	Last day of lectures in first term.
January 3	Second term begins.
February 14-18	Reading week; lectures will not be held.
March 10	Last day of lectures.
March 13-17	Examinations.

Winter - Spring Session

December 3	Last day to apply for admission to the Pre-University Courses that begin on January 3. Fees in full must accompany the application for admission.
January 3	Lectures begin.
February 3	Last day to withdraw and receive a partial refund of fees (see General Regulations).
March 13-17	Reading week; lectures will not be held.
May 22	Victoria Day; lectures will not be held.
May 26	Last day of lectures.
May 29 - June 2	Examinations.

Spring – Summer Session

March 17	Last day to apply for admission to the Pre-University Courses that begin on April 17. Fees in full must accompany the application for admission.
April 17	Lectures begin.
May 17	Last day to withdraw and receive a partial refund of fees (see General Regulations).
May 22	Victoria Day; lectures will not be held.
August 4	Last day of lectures.
August 7–11	Examinations.

Summer Day Session

June 2	Last day to apply for admission to the Pre-University Courses that begin on July 3. Fees in full must accompany the application for admission.
July 3	Lectures begin.
July 17	Last day to withdraw and receive a partial refund of fees (see General Regulations).
August 7	Civic Holiday; lectures will not be held.
August 11	Last day of lectures.
August 14	Examinations.

II UNIVERSITY OF TORONTO DEGREE COURSES SCHEDULE OF DATES 1972

Pre-University students who intend to apply for admission to the University of Toronto should note the following schedule of dates for 1972.

April 1	Last day for new students to apply for admission to the Summer Evening Session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, and the School of Physical and Health Education may apply for admission to the Summer Evening Session.
May 15	Last day for new students to apply for admission to the Summer Day Session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science and the School of Physical and Health Education may apply for admission to the Summer Day Session.
May 15–August 11	Summer Evening Session.
June 1	Last day for new students to apply for admission to the 1972-73 full time programme in all faculties.
July 3–August 11	Summer Day Session.
August 1	Last day for new students to apply for admission to the Winter Session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, the School of Nursing, and the School of Physical and Health Education may apply for admission to the Winter Session.

Candidates should apply early in the year to which they seek admission and not later than the dates indicated above. This procedure applies to all candidates, including those whose Pre-University results may not be available at the time of application. All results achieved in Pre-University Courses are forwarded to the Office of Admissions by the Division of University Extension, as soon as they become available.

III ADMISSION REQUIREMENTS

Pre-University Courses are designed to enable students who have not completed Grade 13 (or its equivalent) to become eligible to apply for admission to the University of Toronto as mature students.

Effective with the Summer Session of 1972, a candidate of mature age (twenty-three years of age or older on October 1 of the Winter Session or July 15 of the Summer Session) who has lived in Ontario for a minimum period of one year may request special consideration for admission if he has obtained high standing in at least one Pre-University Course offered through the Division of University Extension (or an equivalent course) and obtains standing in such other tests as may be required. His previous secondary school record will also be taken into account.

A candidate wishing to apply for admission as a mature student should consult the Office of Admissions about his eligibility before undertaking one of the Pre-University Courses, since successful completion of a Pre-University Course does not in itself ensure admission. Courses with scientific content such as those offered by the professional faculties often have additional entrance requirements. This information may also be obtained from the Office of Admissions.

N.B. Students who have attended a post-secondary institution should not undertake Pre-University Courses, for successful completion of these courses does not normally improve the eligibility for admission of such students.

Students should undertake Pre-University Courses that fulfill the admission requirements of the Faculty, School or Certificate Programme they intend to enter. Admission requirements for mature students are as follows:

Faculty of Arts and Science

Candidates must offer high standing in at least one Pre-University Course (or an equivalent course).

Students who intend to study the Humanities (Classical Studies, East Asian Studies, English, Fine Art, French, German, History, Islamic Studies, Italian and Hispanic Studies, Religious Studies, and Slavic Languages and Literatures) or the Social Sciences (Anthropology, Commerce, Economics, Geography, Political Science, Psychology, and Sociology) at the university level are

Faculty of Arts and Science (cont'd.)

advised to undertake either Pre-University English or Pre-University History. Students who intend to study the Natural Sciences (Astronomy, Biochemistry, Biology, Botany, Chemistry, Geology, Microbiology, Physics, Physiology, and Zoology) or Mathematics at the university level are advised to undertake Pre-University Mathematics. In addition, Pre-University Chemistry or Pre-University Physics should be taken if the study of these subjects is intended at the university level.

Faculty of Applied Science and Engineering

Candidates must offer high standing in three Pre-University Courses (or their equivalent), to include Chemistry; Mathematics; Physics.

School of Nursing

Candidates must offer high standing in two Pre-University Courses (or their equivalent), one of which must be Chemistry.

School of Physical and Health Education

Candidates must offer high standing in at least one Pre-University Course (or an equivalent course), and will also be considered on an individual basis after a personal interview to determine suitability for admission.

Certificate Programmes

Business
Public Administration
Criminology
Personnel and Industrial Relations

Candidates must offer high standing in one Pre-University Course (or an equivalent course).

Information on other courses of instruction may be obtained by referring to the calendar of the appropriate Faculty or School, or by consulting one of the academic counsellors of the Division of University Extension.

IV COURSE DESCRIPTIONS

Pre-University Chemistry

This course is designed to prepare the student for the study of Chemistry at the university level. Emphasis is on physical chemistry rather than on descriptive inorganic chemistry. Energy effects in chemical reactions; reaction rates; chemical and ionic equilibria; oxidation-reduction reactions; electron arrangement and the periodic table; the chemical bond in molecules in gas phase, in solids, and in liquids, are considered. The course concludes with an introduction to organic chemistry.

No experimental work is done by the student, but certain techniques and experiments are demonstrated.

Although some time is spent in reviewing elementary principles of chemistry, knowledge of Grade 12 Chemistry (or its equivalent) is assumed.

Text: F.A. Cotton, L.D. Lynch, **Chemistry, An Investigative Approach**, Nelson, 1968.

Mon. and Wed., 7:00 – 9:00 p.m., Oct. 4 – March 10
Tues. and Thurs., 7:00 – 9:30 p.m., April 17 – August 4

Pre-University English

I Composition

Throughout the course instructors will assign such work as may be necessary to bring the class to the degree of facility in thought and expression required for academic work.

Text: Waterson and Beatty, **Composition for Canadian Universities**, MacMillan.

II Poetry

A sampling from the major historical periods of poetry in English. Minimum, one thousand lines.

Text: Charlesworth and Lee, **An Anthology of Verse**, Oxford; or
Bower, Ferry, Kalstone, **Beginning with Poems**, Norton; or
other recognized anthology.

Pre-University English (cont'd.)

III Drama
One Shakespeare play.
At least three additional plays.

IV Novel
One eighteenth century novel.
One nineteenth century novel.
At least two additional novels.

Texts: Reading lists will be mailed to successful applicants.

Note: Pre-University English is a literature course and should not be undertaken by students who are learning English as a second language.

Mon and Wed., 7:00 – 9:00 p.m., Oct. 4 – March 10
Mon and Wed., 2:00 – 4:00 p.m., Oct. 4 – March 10
(Please indicate evening or day classes on the application.)
Tues. and Thurs., 7:00 – 9:00 p.m. Jan. 3 – May 26
Mon. and Wed., 7:00 – 9:30 p.m., April 17 – August 4
Mon. to Fri., 9:00 a.m. – 12:00 noon, July 3 – August 11

Note: For the October – March Session only, evening classes in English will be held at Scarborough and Erindale Colleges in addition to those held on the St. George campus. Please indicate on the application form where you wish to attend classes.

Pre-University History

This course is intended as an introduction to history as a discipline and a consideration of its relationship to other academic disciplines. Selected topics in the social, political, intellectual and economic history of Canada will be studied. Students will have an opportunity, through written assignments and essays, to improve their composition skills.

The course is similar to Grade 13 History, and therefore requires performance at the level to be expected of students preparing to enter university.

Texts: Reading lists will be mailed to successful applicants.

Tues and Thurs., 7:00 – 9:00 p.m., Oct. 4 – March 10
Mon. and Wed., 7:00 – 9:00 p.m., Jan. 3 – May 26
Tues. and Thurs., 7:00 – 9:30 p.m., April 17 – August 4
Mon. to Fri., 9:00 a.m. – 12:00 noon, July 3 – August 11

Note: For the October – March Session only, evening classes in History will be held at Scarborough and Erindale Colleges in addition to those held on the St. George campus. Please indicate on the application form where you wish to attend classes.

Pre-University Mathematics

This course is designed to prepare the student for the study of Mathematics at the university level. Most of the topics which are studied in Grade 13 Mathematics A, as well as a few from Mathematics B, are covered. The modern approach to mathematics ("New Math") will be emphasized. Students who successfully complete the course will receive a preparation which will be suitable for entering courses for which Mathematics A is a prerequisite. In addition, the mathematics course is intended to assist undergraduates who intend to enter a graduate programme which involves the use of statistics and calculus and who feel that they need a stronger foundation in mathematics.

After a brief introduction to the methods of modern mathematics, the class will undertake a consideration of the number system, algebraic equations and inequalities, and the standard results of analytic geometry. The basic concept of function will be introduced (with particular investigation of exponential logarithmic and trigonometric functions) which leads naturally to a study of calculus.

Students are expected to be able to manipulate algebraic expressions and to solve simple algebraic equations. They should have some familiarity with the results of Euclidean geometry. It is not expected that students will be familiar with the modern terminology of mathematics ("New Math"). Students with less than Ontario Grade 12 Mathematics are advised not to take this course.

Text: C.B. Allendoerfer, C.O. Oakley, **Principles of Mathematics**, McGraw-Hill.

Tues. and Thurs., 7:00 – 9:00 p.m., Oct. 4 – March 10
Mon. and Wed., 7:00 – 9:00 p.m., Jan. 3 – May 26
Mon. and Wed., 7:00 – 9:30 p.m., April 17– August 4

Pre-University Physics

Providing an introduction to "modern physics" and a preparation for the study of physics at the university level, this course includes most of the topics found in Grade 13 Physics. Throughout the course, emphasis will be placed on understanding the basic concepts of physics. There will be ample opportunity to develop skill in problem solving, but no calculus will be used.

After a brief survey of physics and establishing the basis for measurements, the class will undertake a fairly detailed study of mechanics with a brief section on satellite motion. Mechanical vibrations then form an appropriate introduction to wave motion and sound. Heat, electricity, magnetism and light follow. The problems arising out of the dual nature of light form a useful basis for introducing modern physics with current concepts on the nature of an atom, the structure of its nucleus, and radioactivity.

Previous studies in physics, while helpful, are not mandatory. However, students are expected to be able to manipulate algebraic expressions and to solve simple algebraic equations. A knowledge of simple trigonometrical relationships - sine, cosine, tangent - will be helpful but not essential as these will be defined when required. It will be assumed that students have at least Grade 12 Mathematics (or its equivalent).

Text: G. Gamow, J.M. Cleveland, **Physics; Foundations and Frontiers**, 2nd Ed., Prentice-Hall, 1969.

Tues. and Thurs., 7:00 – 9:00 p.m., Oct. 4 – March 10
Tues. and Thurs., 7:00 – 9:30 p.m., April 17 – August 4

V DIVISION OF UNIVERSITY EXTENSION

The Division of University Extension offers part-time degree programmes in Arts and Science, Applied Science and Engineering, Nursing, and Physical and Health Education.

The Bachelor of Arts and Bachelor of Science degrees may be obtained through part-time study.

The first year of the Engineering programme; the first year of the Physical and Health Education programme; the first and second years of the Nursing programme may be completed through part-time study.

The second, third and fourth years of the Engineering programme; the second, third and fourth years of the Physical and Health Education programme; the third year of the Nursing programme must be completed through full time study.

Applications for admission to the Faculty of Applied Science and Engineering may be submitted for the Winter Session and the Summer Evening Session; applications for admission to the School of Nursing may be submitted for the Winter Session.

Winter Session

Classes begin in mid-September and end at the end of April or early in May.

One course normally involves one two-hour lecture each week.

Summer Evening Session

Classes begin in mid-May and end in mid-August.

One course normally involves two, two and one half hour lectures each week.

Summer Day Session

Classes begin the first week in July and end in mid-August.

One course normally involves one two hour lecture each weekday.

Part-time students may enrol for courses in these three sessions, to a maximum of three courses in the Winter Session, and a maximum of two courses in the Summer Sessions.

VI STUDENT SERVICES

Academic Counselling

Students enrolled in Pre-University Courses should meet with an academic counsellor in the Division of University Extension to discuss their academic programme. Counselling hours are arranged to meet the requirements of each student and are held at 84 Queen's Park. For counselling appointments, telephone 928-2405.

Writing Laboratory

The Writing Laboratory is a service designed to help students write more effectively. The staff of the Writing Laboratory will work with individual students as editorial consultants, analyzing their written work to help them overcome problems in the organization of ideas, sentence structure, word choice and the documentation of research sources. With the exception of an introductory lecture, the work of the Writing Laboratory is conducted in individual interviews on the basis of work in progress. Appointments for interviews should be arranged by telephoning 928-8600 or 928-2847.

Bookstore Facilities

Winter Session

Books may be purchased at the Textbook Store (Willcocks and Huron Streets), and at the Bookroom (63A St. George Street). In addition to the regular hours of service from 8:45 a.m. — 5:00 p.m. Monday — Friday, the Bookstores will be open in the evening as follows:

Sept. 13 — 16	8:45 a.m. — 8:30 p.m.
Sept. 20 — 23	8:45 a.m. — 8:30 p.m.
Sept. 18 and 25 (Saturdays)	11:00 a.m. — 3:00 p.m.

Summer Session

Hours will be posted.

VII GENERAL REGULATIONS

Location of Classes

Information on the location of specific classes will be mailed to successful applicants.

Fees

The fee for each Pre-University Course is \$100.00. Fees in full must accompany the application for admission. Please make cheques payable to the University of Toronto.

Withdrawals and Refunds

In order to become eligible for a partial refund of fees on withdrawing from a course, the student must write to the Division of University Extension and enclose his receipt. Requests for partial refund of fees must be received by the dates listed in this calendar. After these dates, requests for partial refund of fees will be considered only for grave medical or compassionate reasons.

Schedule of refunds

Winter Session:

For students withdrawing before the second class	— \$90.00
For students withdrawing before the third week of classes begins	— \$75.00
For students withdrawing during the third and fourth weeks of classes	— \$50.00

Winter-Spring Session:

For students withdrawing before the second class	— \$90.00
For students withdrawing before the third week of classes begins	— \$75.00
For students withdrawing during the third and fourth weeks of classes	— \$50.00

Withdrawal and Refunds (cont'd.)

Spring-Summer Session:

For students withdrawing before the second class	— \$90.00
For students withdrawing before the third week of classes begins	— \$75.00
For students withdrawing during the third and fourth weeks of classes	— \$50.00

Summer Day Session:

For students withdrawing before the second class	— \$90.00
For students withdrawing after the second class and before the third week of classes begins	— \$50.00

Supplemental Examinations

Supplemental examination privileges are considered only for grave medical or compassionate reasons. Petitions for consideration in this regard must be filed with the Co-ordinator, Pre-University Courses, Division of University Extension, on or before the last day of the examination period of the Session in which the student is registered. Such petitions must be accompanied by a doctor's certificate which includes a statement that the candidate was examined at the time of the illness; or other evidence.

Application for Admission to the University

Students who wish to pursue studies leading to a degree at the University of Toronto must submit an application for admission to the Office of Admissions by the dates listed in this calendar under "Degree Courses - Schedule of Dates". Applications are available at the Division of University Extension and the Office of Admissions.

A student who wishes to undertake Degree studies in the Session immediately following his Pre-University Course must apply for admission by the dates published, even though his Pre-University results may not be available at the time of application. All results achieved in Pre-University Courses are forwarded to the Office of Admissions by the Division of University Extension, as soon as they become available.

Course Results and Transcripts

Pre-University Course results are also mailed to the individual student. No results are released over the telephone.

Requests for individual transcripts must be submitted in writing to the Division of University Extension.

TIMETABLE — 1971-72

October 4 — March 10

Chemistry	Mondays and Wednesdays	7:00 — 9:00 p.m.
English	Mondays and Wednesdays	7:00 — 9:00 p.m.
English	Mondays and Wednesdays	2:00 — 4:00 p.m.
History	Tuesdays and Thursdays	7:00 — 9:00 p.m.
Mathematics	Tuesdays and Thursdays	7:00 — 9:00 p.m.
Physics	Tuesdays and Thursdays	7:00 — 9:00 p.m.

January 3 — May 26

English	Tuesdays and Thursdays	7:00 — 9:00 p.m.
History	Mondays and Wednesdays	7:00 — 9:00 p.m.
Mathematics	Mondays and Wednesdays	7:00 — 9:00 p.m.

April 17 — August 4

Chemistry	Tuesdays and Thursdays	7:00 — 9:30 p.m.
English	Mondays and Wednesdays	7:00 — 9:30 p.m.
History	Tuesdays and Thursdays	7:00 — 9:30 p.m.
Mathematics	Mondays and Wednesdays	7:00 — 9:30 p.m.
Physics	Tuesdays and Thursdays	7:00 — 9:30 p.m.

July 3 — August 11

English	Monday to Friday	9:00 a.m. — 12:00 noon
History	Monday to Friday	9:00 a.m. — 12:00 noon

PRE-UNIVERSITY COURSES

Mr.
Mrs.
Miss

Surname First Given Name Second Given Name

ADDRESS: _____ Number and Street Apartment Number City and Zone

TELEPHONE: _____ Home Office BIRTH DATE: _____ Day Month Year

State your formal education: (last grade successfully completed.)

Name of Institution	No. of Years Completed	Marks Achieved	Dates From To
Primary			
Secondary			
Post-Secondary			
Other			

I hereby apply for admission to the Pre-University Course in

_____ commencing _____ Evening Day

Campus: St. George *Erindale *Scarborough

*Applicable to Evening classes in English and History, October - March session only

Purpose for which this course is intended:

Admission to the University of Toronto as a mature part-time student in the Division of University Extension.

Faculty: Arts and Science, Applied Science and Engineering,
 Nursing, Physical and Health Education.

Certificate Programme: Business, Public Administration,
 Criminology, Personnel & Industrial Relations.

Admission to the University of Toronto as a mature full time student in the Faculty of _____.

Other (specify) _____.

I have been informed by the Office of Admissions at the University of Toronto that I will be eligible to apply for admission to this University upon successful completion of Pre-University Course requirements.

YES NO

Fee enclosed: (\$100.00 for each course) \$ _____.

Please make cheques payable to the University of Toronto.

I hereby certify that all statements on this application are correct and complete.

Date	Signature
Send application to: Pre-University Courses Division of University Extension 84 Queen's Park Toronto 181, Ontario	Receipt Number _____

